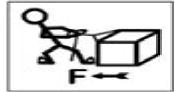
Forces and Motion Reading

Directions: Please read and annotate the following passage below about force and motion. In order to receive full credit you need to do the following: circle words you don't know, highlight main concepts/ big ideas and provide me with a 7 sentence summary for the first page and a 7 sentence summary for the second page.

A Force (F) is energy that is created by a push or pull. You generate a force when you push against a box to move it across the floor, or when you pull a wagon. You generate a force when you push down on the pedals of your bike. You generate a force when you lift a book off a table, "pulling" the book up with the lever of your arm.



Work in done when

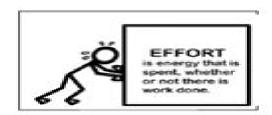
 $W = F \times d$



In order to create motion from an object, the energy you apply must be greater than any force(s) resisting motion. Motion is a change in position or location of a body. Another word for motion is movement. When a force causes motion, work is done. Work is by definition W=F x d, where F=force applied and d=the distance the object is moved, also called displacement.

Think about this: if you push against a refrigerator and cannot move it any distance, have you still done work? The answer is no. You have produced no motion in the refrigerator, and in the equation above, the displacement is zero. Therefore the work is zero. Have you generated a force? Yes. If you apply force to something and it does not move, you can still feel the effect of that force. You feel tired! The force you generated was not enough to overcome the mass of that refrigerator at rest.

To create motion, you must supply enough work to overcome resistant forces. One resistant force is called inertia. Inertia is an object's resistance to changes in motion. If an object is not moving, it resists being moved. If an object is moving, it resists being stopped. But what causes the force of inertia? If an object is at rest, the force of inertia that must be overcome to move it is a combination of gravity pulling down on the object and friction resisting a push ahead. If an object is in motion, the force of the object's speed moving in a direction will oppose a force stopping the object.



Motion And Forces Comprehension

Michael Seilmaier



The Enigmatic Realm of Motion And Forces Comprehension: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Motion And Forces Comprehension** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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